

Work Order ID 61103

August 6, 2010 9:49:34 AM



Page 1

Item ID: D412-742-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Skidtube Installation

Start Date: 8/06/10 Start Qty: 1.00



Cust Item ID:

Required Date: 8/13/10 Req'd Qty: 1.00

Customer:

Reference: RA111015 - RETURN

Approvals: Process Plan: *U*

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

IIN D412-742

D

100

0.00



DOCUMENT CONTROL

DC

Memo

//

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-742-013 CHG006

8/26/19

8/26/19

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

INSPECT TUBE & KIT FROM RA111015

8/26/19

(70)

DART				TEL.: 1-613-632-3336 FAX: 1-613-632-4443	
TRANSPORT CANADA APPROVAL # 09-89					
P/N	D412-742-013	CHG	CHG005		
DESC.	Float Skidtube	STC	SR01583SE		
LOT	B44111	STC	SH05-37		
MODEL	205/210/212/412/AB412	STC			
US PATENT # 5735484 CANADA FOREIGN PATENTS PENDING					
MADE IN CANADA					

Work Order ID 61103

August 6, 2010 9:49:34 AM



Page 2

Item ID: D412-742-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Skidtube Installation

Start Date: 8/06/10 Start Qty: 1.00



Cust Item ID:

Required Date: 8/13/10 Req'd Qty: 1.00

Customer:

Reference: RA111015

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

121

0.00



HandFinish

Memo

0.00

Hand Finishing

REMOVE DAMAGED AFT CAP-SCRAP PART
REMOVE FWD CAP AND CLEAN OUT ANY LPS INSIDE TUBE
RE-INSTALL CAPS PER DWG
NEW AFT CAP REQUIRED
D3401-041 B 57332

ml 10 08 12 (1)

122

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8/16/19

130

Packaging

0.00



Packaging

Memo

0.00

Packaging

RE-PACKAGE PER PPP USING NEW B/N
NEW LABELS AND PAPERWORK REQ'D

Reit

8/16/19



CHG 006

10/6/19sf

Work Order ID 61103

Page 3

August 6, 2010 9:49:35 AM

Item ID: D412-742-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Skidtube Installation

Start Date: 8/06/10 Start Qty: 1.00



Cust Item ID:

Required Date: 8/13/10 Req'd Qty: 1.00



Customer:

Reference: RA111015

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/08/19
CL 10/8/19

Picklist Print

August 6, 2010 9:49:33 AM

Page 1

Work Order ID: 61103

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation



Start Date: 8/06/10

Required Date: 8/13/10

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DS19336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC
 IPP Rev: E 09-01-23 as per DS19441 DD verified by: EC IPP RevF: add AN4C7A DD 10.01.13 verified by: EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3401-041 Tow Cap Assembly		Manufactured	No				Each	16.0000		1			
<div> <div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div> <div> <div>FP</div> <div>16</div> <div></div> </div> <div> <div>41931</div> <div>2</div> <div></div> </div> <div> <div>46029</div> <div>12</div> <div></div> </div> <div> <div>50316</div> <div>2</div> <div></div> </div> </div>													
D412-742-013 Float Skidtube Installation		Manufactured	No				Each	5.0000		1			
<div> <div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div> <div> <div>FG</div> <div>1</div> <div></div> </div> <div> <div>54707</div> <div>1</div> <div></div> </div> <div> <div>FG073</div> <div>4</div> <div></div> </div> <div> <div>56677</div> <div>1</div> <div></div> </div> <div> <div>58226</div> <div>1</div> <div></div> </div> <div> <div>58651</div> <div>1</div> <div></div> </div> <div> <div>58652</div> <div>1</div> <div></div> </div> </div>													

ORIGINAL B/N 44111

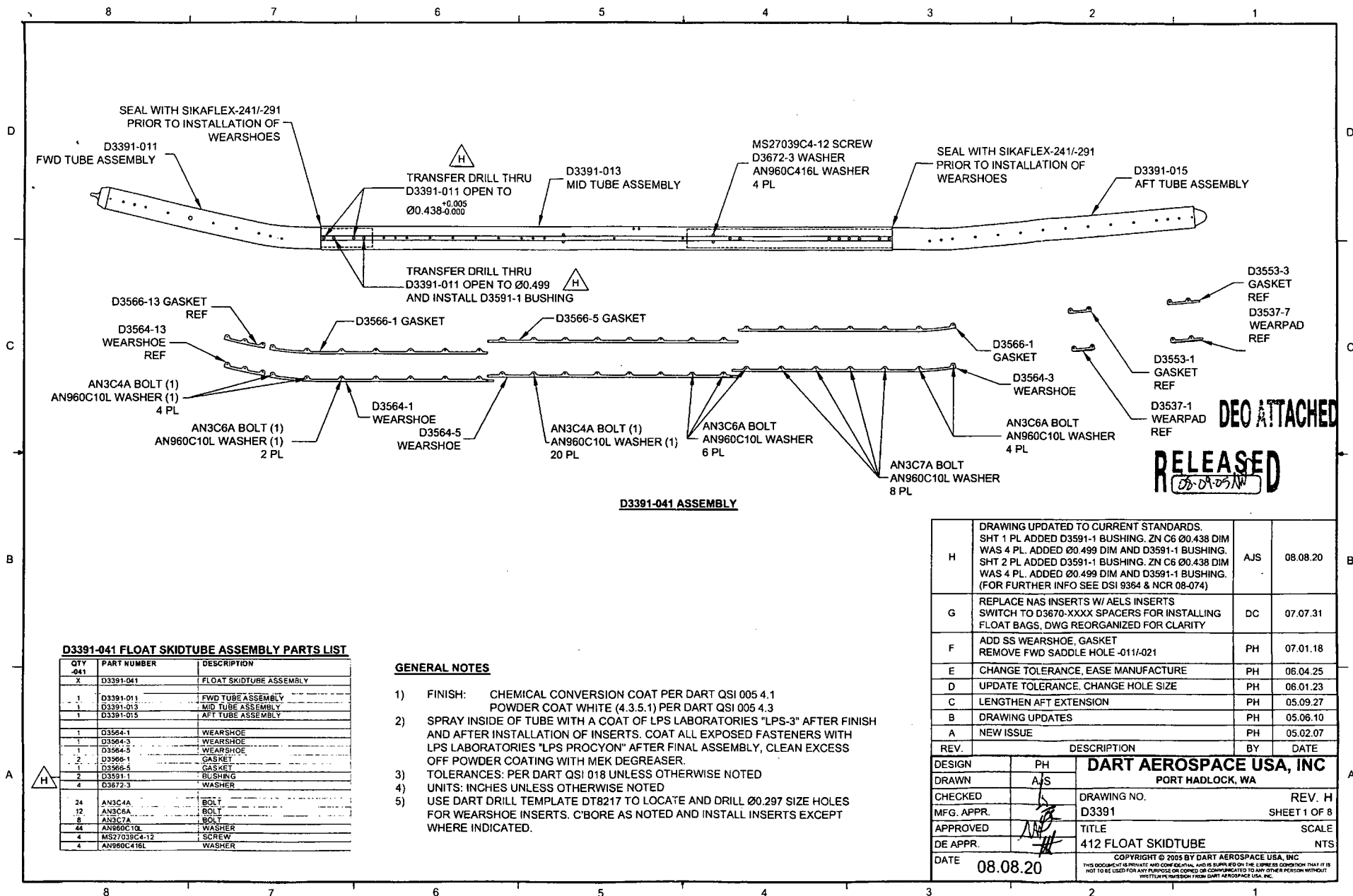
8/10/06/19

AN4C47A

B# 1115231

Qty x4

★ ATT CAP: D2646 B57332^{x1} ml 10 08 18



D3391-041 FLOAT SKIDTUBE ASSEMBLY PARTS LIST

QTY	PART NUMBER	DESCRIPTION
X	D3391-041	FLOAT SKIDTUBE ASSEMBLY
1	D3391-011	FWD TUBE ASSEMBLY
1	D3391-013	MID TUBE ASSEMBLY
1	D3391-015	AFT TUBE ASSEMBLY
1	D3564-1	WEARSHOE
1	D3564-3	WEARSHOE
1	D3564-5	WEARSHOE
2	D3566-1	GASKET
1	D3566-5	GASKET
2	D3591-1	BUSHING
4	D3672-3	WASHER
24	AN3C4A	BOLT
12	AN3C6A	BOLT
8	AN3C7A	BOLT
44	AN960C10L	WASHER
4	MS27039C4-12	SCREW
4	AN960C416L	WASHER

GENERAL NOTES

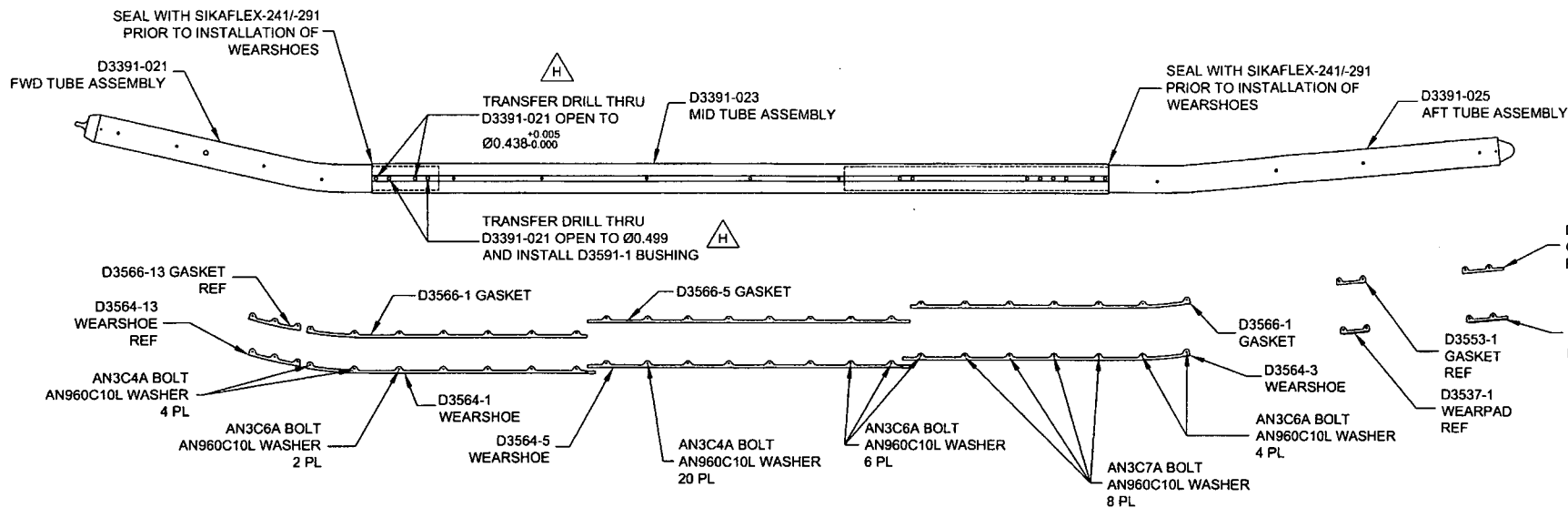
- 1) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) USE DART DRILL TEMPLATE DT8217 TO LOCATE AND DRILL Ø0.297 SIZE HOLES FOR WEARSHOE INSERTS. C'BORE AS NOTED AND INSTALL INSERTS EXCEPT WHERE INDICATED.

DEO ATTACHED

RELEASED
05-08-20

H	DRAWING UPDATED TO CURRENT STANDARDS. SHT 1 PL ADDED D3591-1 BUSHING. ZN C6 Ø0.438 DIM WAS 4 PL. ADDED Ø0.499 DIM AND D3591-1 BUSHING. SHT 2 PL ADDED D3591-1 BUSHING. ZN C6 Ø0.438 DIM WAS 4 PL. ADDED Ø0.499 DIM AND D3591-1 BUSHING. (FOR FURTHER INFO SEE DSI 9364 & NCR 08-074)	AJS	08.08.20
G	REPLACE NAS INSERTS W/ AELS INSERTS SWITCH TO D3670-XXXX SPACERS FOR INSTALLING FLOAT BAGS, DWG REORGANIZED FOR CLARITY	DC	07.07.31
F	ADD SS WEARSHOE, GASKET REMOVE FWD SADDLE HOLE -011/-021	PH	07.01.18
E	CHANGE TOLERANCE, EASE MANUFACTURE	PH	06.04.25
D	UPDATE TOLERANCE, CHANGE HOLE SIZE	PH	06.01.23
C	LENGTHEN AFT EXTENSION	PH	05.09.27
B	DRAWING UPDATES	PH	05.06.10
A	NEW ISSUE	PH	05.02.07
REV.	DESCRIPTION	BY	DATE
DESIGN	PH	DART AEROSPACE USA, INC PORT HADLOCK, WA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. H
MFG. APPR.		D3391	SHEET 1 OF 8
APPROVED		TITLE	SCALE
DE APPR.		412 FLOAT SKIDTUBE	NTS
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C1103



D3391-043 ASSEMBLY

D3391-043 FLOAT SKIDTUBE ASSEMBLY PARTS LIST

QTY	PART NUMBER	DESCRIPTION
X	D3391-043	FLOAT SKIDTUBE ASSEMBLY
1	D3391-021	FWD TUBE ASSEMBLY
1	D3391-023	MID TUBE ASSEMBLY
1	D3391-025	AFT TUBE ASSEMBLY
1	D3564-1	WEARSHOE
1	D3564-3	WEARSHOE
1	D3564-5	WEARSHOE
2	D3566-1	GASKET
1	D3566-5	GASKET
2	D3591-1	BUSHING
24	AN3C4A	BOLT
12	AN3C6A	BOLT
8	AN3C7A	BOLT
44	AN960C10L	WASHER

GENERAL NOTES

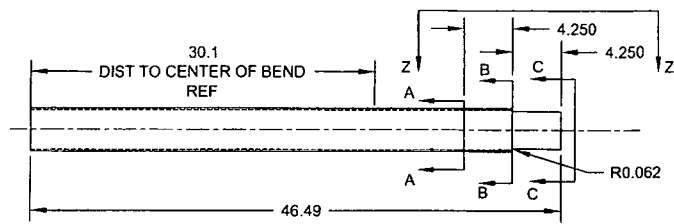
- 1) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) USE DART DRILL TEMPLATE DT8217 TO LOCATE AND DRILL Ø0.297 SIZE HOLES FOR WEARSHOE INSERTS. C'BORE AS NOTED AND INSTALL INSERTS EXCEPT WHERE INDICATED.

DEO ATTACHED

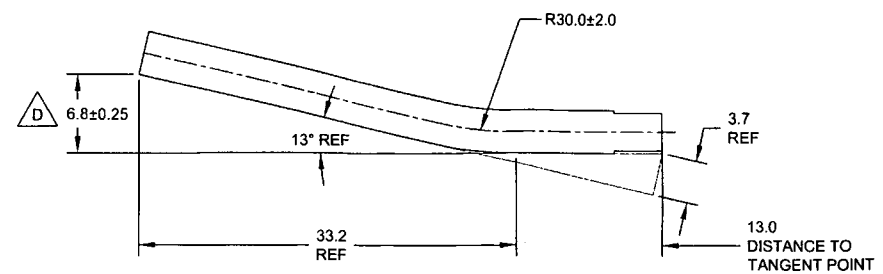
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08-09-05

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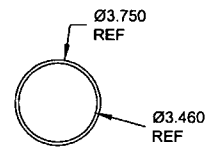
6403



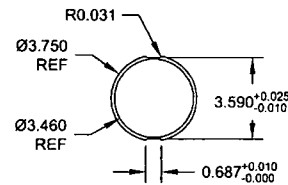
D3391-1 CUTTING DETAIL
(MAKE FROM D6013-047 SKIDTUBE MATERIAL)



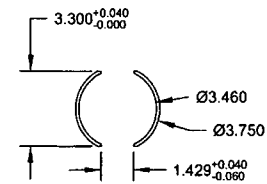
D3391-011/-021 BENDING DETAIL
(MAKE FROM D3391-1)



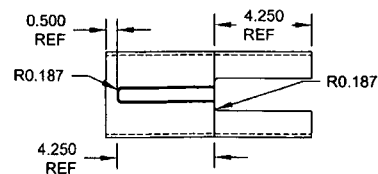
SECTION A-A
SCALE 2X



SECTION B-B
SCALE 2X



SECTION C-C
SCALE 2X

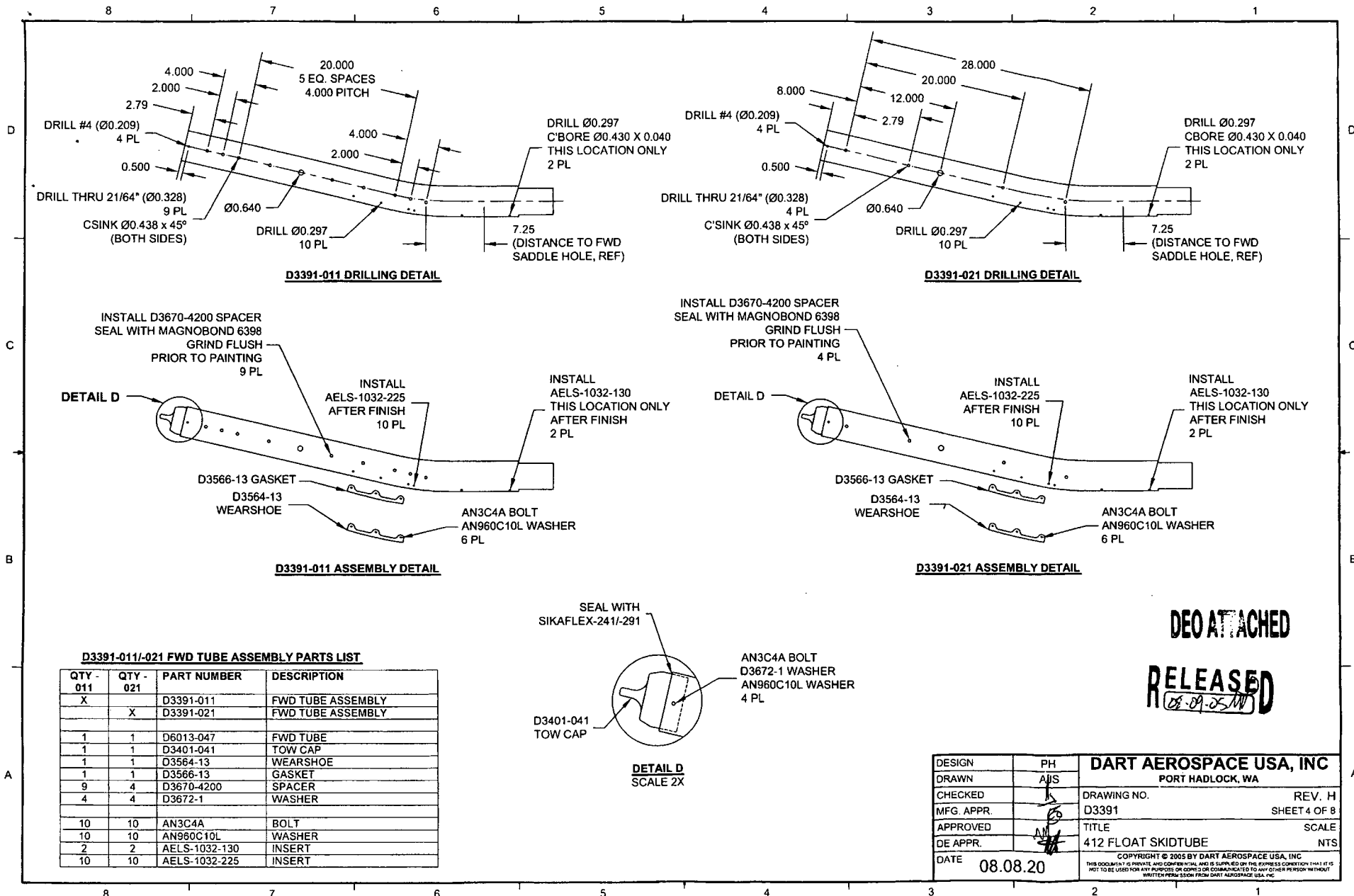


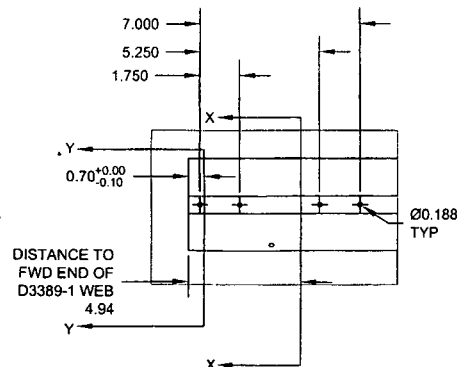
VIEW Z-Z
SCALE 2X

DEO ATTACHED
RELEASED
08-05-11

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6403



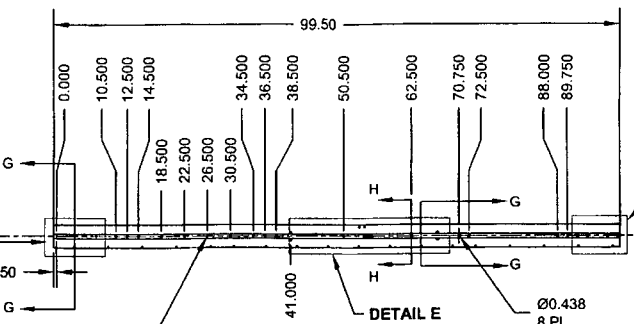


DETAIL J
SCALE 4X

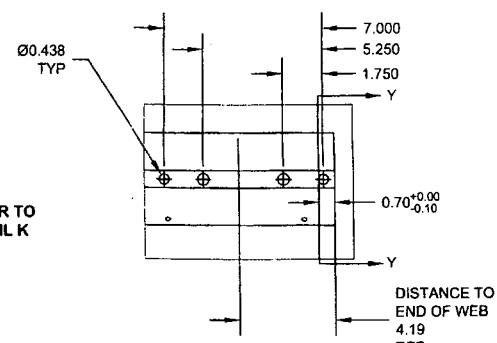
DRILL THRU 21/64" (Ø0.328)
CSINK Ø0.438 X 45° (BOTH SIDES)
12 PL

REFER TO
DETAIL J

D3391-013 ASSEMBLY DETAIL



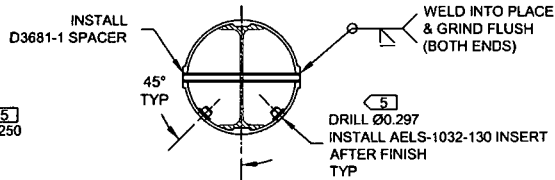
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DETAIL K



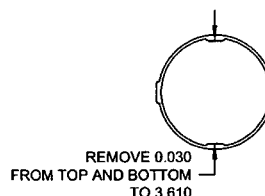
DETAIL K
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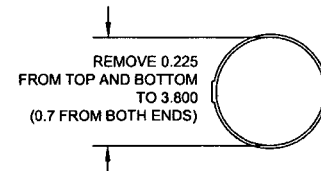
SECTION G-G
SCALE 5X



SECTION H-H
SCALE 5X



SECTION X-X
SCALE 5X



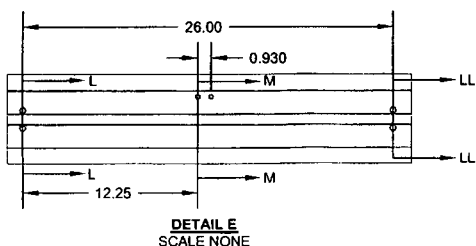
SECTION Y-Y
SCALE 5X

D3391-013 MID TUBE ASSEMBLY PARTS LIST

QTY -013	PART NUMBER	DESCRIPTION
X	D3391-013	MID TUBE ASSEMBLY
1	D2500-1-100	EXTRUSION
1	D3389-1	WEB
4	D3672-1	WASHER
4	D3672-3	WASHER
12	D3681-1	SPACER
24	AELS-1032-130	INSERT
4	ALS4-428-165	INSERT
4	AN960C10L	WASHER
4	AN960C416L	WASHER
4	MS27039C1-09	SCREW
4	MS27039C4-08	SCREW

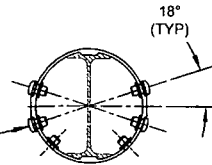
D3391-013 MID TUBE ASSEMBLY

- 1) MATERIAL: MAKE FROM D2500-1-100 EXTRUSION
- 2) INSTALL D3389-1 WEB TO OUTER TUBE USING SIKAFLEX-241/291 PER QSI 015
- 3) WELDING: PER DART QSI 004

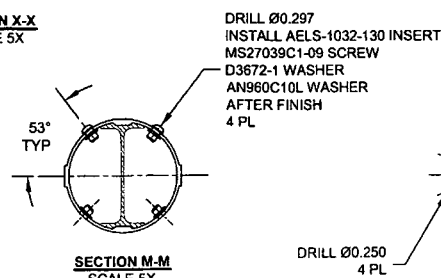


DETAIL E
SCALE NONE

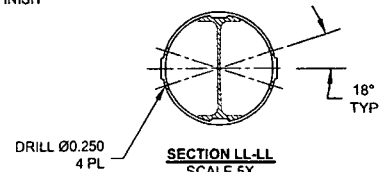
DRILL Ø0.391
INSTALL ALS4-428-165 INSERT
MS27039C4-08 SCREW
D3672-3 WASHER
AN960C416L WASHER
AFTER FINISH
4 PL



SECTION L-L
SCALE 5X



SECTION M-M
SCALE 5X



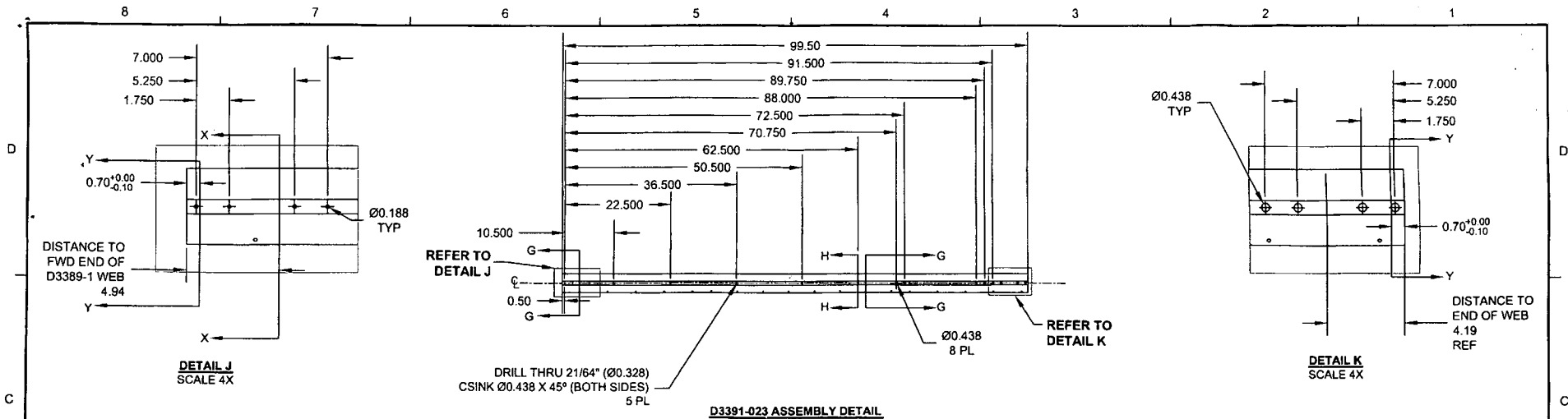
SECTION LL-LL
SCALE 5X

DEO ATTACHED

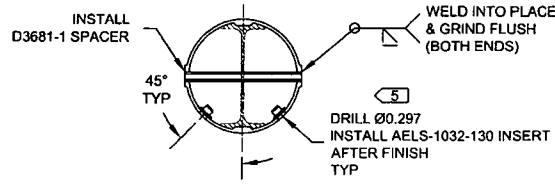
RELEASED

DESIGN	PH	DART AEROSPACE USA, INC	
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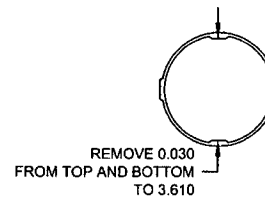
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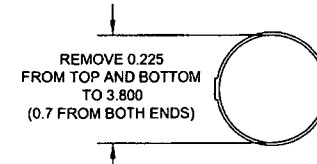
SECTION G-G
SCALE 5X



SECTION H-H
SCALE 5X



SECTION X-X
SCALE 5X



SECTION Y-Y
SCALE 5X

D3391-023 MID TUBE ASSEMBLY PARTS LIST

QTY - 023	PART NUMBER	DESCRIPTION
X	D3391-023	MID TUBE ASSEMBLY
1	D2500-1-100	EXTRUSION
1	D3389-1	WEB
5	D3681-1	SPACER
20	AELS-1032-130	INSERT

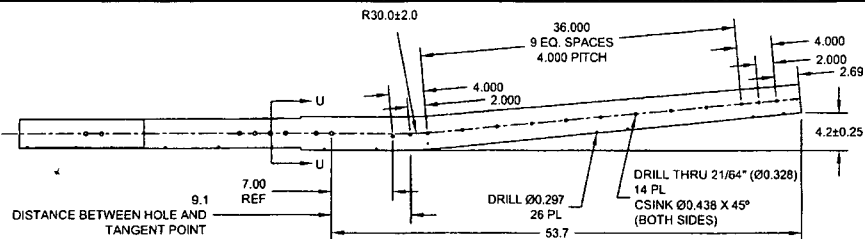
D3391-023 MID TUBE ASSEMBLY

- 1) MATERIAL: MAKE FROM D2500-1-100 EXTRUSION
- 2) INSTALL D3389-1 WEB TO OUTER TUBE USING SIKAFLEX-241/291 PER QSI 015
- 3) WELDING: PER DART QSI 004

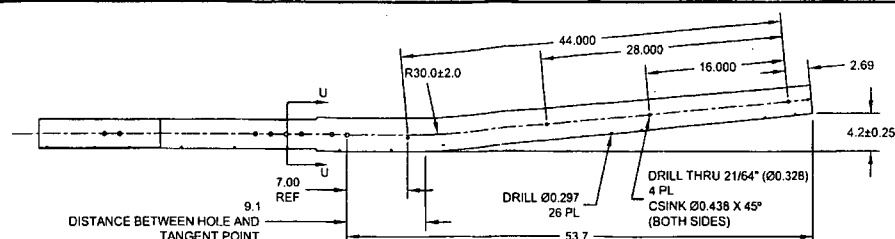
DEO ATTACHED
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08-08-20

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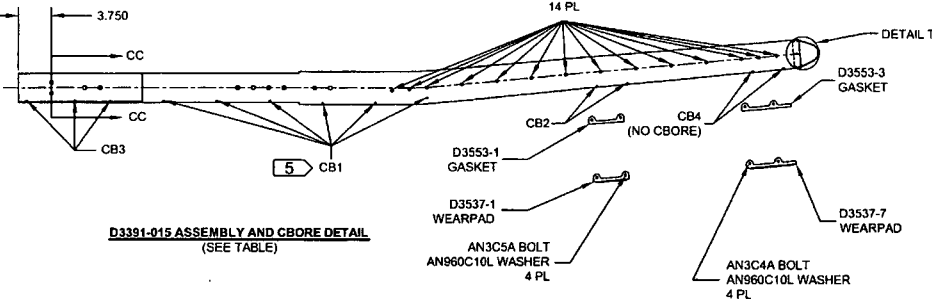
61103



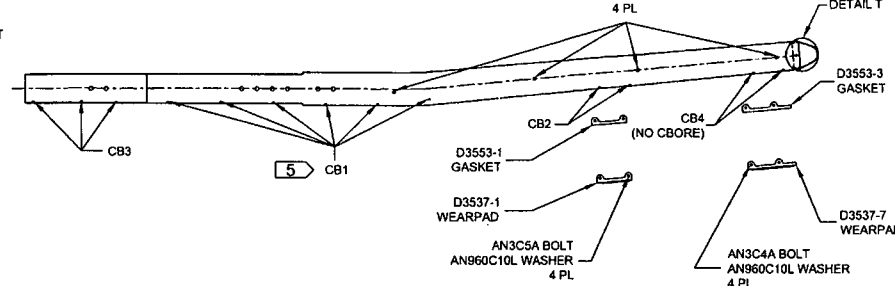
D3391-015 BENDING AND DRILLING DETAIL
(SEE CBORE DETAIL BELOW)



D3391-025 BENDING AND DRILLING DETAIL
(SEE CBORE DETAIL BELOW)



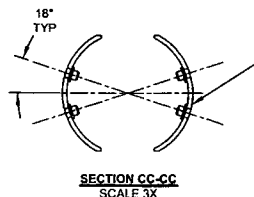
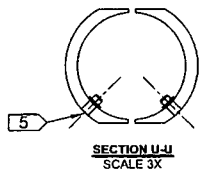
D3391-015 ASSEMBLY AND CBORE DETAIL
(SEE TABLE)



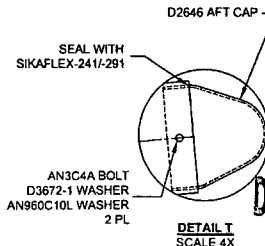
D3391-025 ASSEMBLY AND CBORE DETAIL
(SEE TABLE)

D3391-015-025 AFT TUBE ASSEMBLY PARTS LIST

QTY - 015	QTY - 025	PART NUMBER	DESCRIPTION
X	X	D3391-015	AFT TUBE ASSEMBLY
		D3391-025	AFT TUBE ASSEMBLY
1	1	D6014-090	AFT TUBE
1	1	D2646	AFT CAP
1	1	D3537-1	WEARPAD
1	1	D3537-7	WEARPAD
1	1	D3553-1	GASKET
1	1	D3553-3	GASKET
14	4	D3670-4200	SPACER
2	2	D3672-1	WASHER
14	14	AELS-1032-130	INSERT
12	12	AELS-1032-225	INSERT
4	4	ALS4-428-165	INSERT
6	6	AN3C4A	BOLT
4	4	AN3C5A	BOLT
10	10	AN960C10L	WASHER



DRILL Ø0.391
CBORE Ø0.516 X 0.040 DEEP
INSTALL ALS4-428-165 INSERT
4 PL



DEO ATTACHED

RELEASED
08-09-05-140

CBORE HOLES MARKED CB1-CB4 AS FOLLOWS AND
INSTALL AELS-1032-XXX AFTER FINISH AS NOTED

HOLES MARKED	QTY D3391-015	QTY D3391-025	CBORE	P/N
CB1	12	12	Ø0.430 X 0.170	AELS-1032-225
CB2	4	4	Ø0.430 X 0.170	AELS-1032-130
CB3	6	6	Ø0.430 X 0.040	AELS-1032-130
CB4	4	4	NONE	AELS-1032-130

DESIGN	PH	DART AEROSPACE USA, INC	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. H
MFG. APPR.		D3391	SHEET 6 OF 8
APPROVED		TITLE	SCALE
DE APPR.		412 FLOAT SKIDTUBE	NTS
DATE	08.08.20	COPYRIGHT © 2005 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

61103

DRAWING NO. D3391	TITLE 412 FLOAT SKIDTUBE	REV. H	DART AEROSPACE USA, INC ENGINEERING ORDER		D.E.O. NO. D3391-H-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN <i>CP</i>	CHECKED <i>h</i>	MFG. APPR. <i>Δ</i>	APPROVED <i>MP</i>		DE APPR. <i>h</i>		
DATE 09.09.23	DATE 04.04.24	DATE 09/09/25	DATE 09/09/30		DATE 09/09/30		

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

- 2) ~~SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH~~
~~AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH~~
 LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS
 OFF POWDER COATING WITH MEK DEGREASER.

RELEASED
 2010-02-02

MP

61102

~~DATE~~ 7/6

D410-3410-013

B4411

CHG 005
~~CHG~~

- AFT CAP Damaged.

PA11106

DCS - expect Return.

Finishing - Remove ~~the~~ Damaged AFT cap + scrap

D3410.04

61103

- Remove Fuel cap and clean out
any LPS inside tank.

- Reinstall original Fuel cap + ~~the~~ install new AFT cap
B# _____

DCS - expect work.

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.

REF. FAA STC: SR01583SE
REF. CANADIAN STC: SH05-37
REF. EASA STC: EASA.IM.R.S.01126

REFERENCE ONLY

INSTRUCTIONS:

- 1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

ITEM	Qty -011	Qty -041	Qty -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT

IS:

63	4			AN4C47A	BOLT
----	---	--	--	---------	------

WAS:

63	4			AN4C46A	BOLT
----	---	--	--	---------	------

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

ITEM	Qty -013	Qty 043	PART NUMBER	DESCRIPTION
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE

IS:

63	4		AN4C47A	BOLT
----	---	--	---------	------

WAS:

63	4		AN4C46A	BOLT
----	---	--	---------	------

A	NEW ISSUE	AJS	08.12.19
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE USA, INC	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9441	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		BOLT CHANGE	NTS
DATE	08.12.19	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC	
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